

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A synchronous pump structure, particularly an immersion pump (1) equipped with a float control device (3) and comprising a synchronous electric motor (2) with a permanent-magnet rotor (8), ~~characterised in that~~ wherein the float (16) of said control device (3) is incorporated in a chamber of an envelope (11), externally associated with the body (15) of the pump (1), said envelope (11) comprising a base (13) rotary mounted on said body (15) and a sensor element (4) of said control device (3) is housed in said body (15) in correspondence with said base (13), said float (16) is moving freely inside said chamber providing in a reciprocal separation and approach with said sensor element (4) along an axis coincident or misaligned with a vertical axis of said sensor element (4) in according to said base (13) position.

2. (Currently amended) A pump structure according to claim 1, ~~characterised in that~~ wherein said sensor element is a level sensor (4) of the Hall-effect magnetic type.

3. (Currently amended) A pump structure according to claim 1, ~~characterised in that~~ wherein said float (16) is equipped in its lower part with a permanent magnet (19).

4. (Currently amended) A pump structure according to claim 1, ~~characterised in that~~ wherein said envelope (11) comprises said base (13) that is a cylindrical-cup-shaped portion and a lid (20) defining with said base portion (13) said closed chamber.

5. (Currently amended) A pump structure according to claim 4, ~~characterised in that~~ wherein the lid (20) comprises a knob (22) which can be handled by a user to adjust the position of the float (16) on the horizontal plane.

6. (Currently amended) A pump structure according to claim 2, ~~characterised in that~~ wherein said Hall effect sensor (4) comprises a probe (27) mounted on an electronic board housed in the pump body (15) in a position underlying the float (16).

7. (Currently amended) A pump structure according to claim 4, ~~characterised in that~~ wherein said base portion (13) has a side wall (23) equipped with a grate (29) to put the internal part of the envelope (11) in fluid communication with the external environment.

8. (Currently amended) A pump structure according to claim 7, ~~characterised in that~~ wherein internally, close to that side portion (23), a semi-cylinder-shaped filter element (14) is provided.

9. (Currently amended) A pump structure according to claim 8, wherein said filter (14) is kept in position by two opposite bulkheads (24,30) partially projecting towards the internal part of the envelope (11).

10. (Currently amended) A pump structure according to claim 2, wherein the position of the float (16) can be manually adjusted in order to be misaligned with respect to said sensor element (4).

11. (Currently amended) A pump structure according to ~~one or more previous~~ claim[[s]] 1, ~~characterised in that~~ wherein said envelope (11) is located in an upper part (12) of said pump body (15).